

REMARKS

In the patent application, claims 1-37 are pending. In the office action, claims 1-10, 12, 13, 15-37 are rejected, and claims 11 and 14 are objected to but would be allowable if rewritten in independent form.

Applicant has amended claims 1, 11, 14, 15, 25 and 28- 32, and added new claims 38 and 39.

Claims 1 and 25 have been amended to move part of the claim language in the preamble to the characteristic part and to remove part of the characteristic part. Claims 11, 14 and 15 have been amended to change the word “means” to “circuit”. Claims 28 – 31 have been amended to remove the words “the step of”. Claim 32 has been amended to remove the word “portable”.

The support for new claims 38 and 39 can be found in Figures 2a, 2b, 4a and 4b. For example, in new claim 38, the means for conveying signals in the first frequency band is depicted as balun 232 in Figure 2b and the means for conveying signals in the second frequency band is depicted as switch 48 in Figure 2a. In new claim 39, the first means is depicted as filter 226 in Figure 2b and the second means is depicted as filter 34 in Figure 2a.

No new matter has been introduced.

On page 2 of the office action, claims 1-10, 12, 13 and 15-37 are rejected under 35 U.S.C. 102(e) as being anticipated by *Klemetti* (U.S. Patent Application Publication No. 2004/0162107).

Regarding claim 1, the Examiner considers the first signal path in the claimed invention as being equivalent to the signal path in Figure 5 of *Klemetti*: 105 → 23 → 62 → 42 → 11 and the second signal path as being equivalent to signal path 106 → 24 → 63 → 43 → 46 → 12.

It is respectfully submitted that block 105 in *Klemetti* is a GSM1800 receiver and block 106 is a GSM 1900 receiver. As shown in Figure 4 in *Klemetti*, the frequency range of the GSM1800 receiver is 1805-1880MHz, and the frequency range of the GSM1900 receiver is 1930-1990MHz. Thus, these two frequency ranges do not have overlapping frequencies.

In contrast, the claims 1, 25, 32 and 38, the communication signals in the first signal path have a first frequency band and the communication signals in the second signal path have a

second frequency band, wherein the second frequency band is at least partially overlapping with the first frequency band.

It is respectfully submitted that *Klemetti* uses three antennas 11, 12 and 13 to divide various frequency bands between different antennas. *Klemetti* discloses two antenna arrangements in Figures 3 and 4.

In the arrangement as shown in Figure 3 and described in paragraph [0039], antenna 11 is used to convey signals for GSM900 transmission (880-915MHz); GSM 850 transmission (824-849MHz) and GSM850 reception (869-894MHz), while antenna 12 is used to convey signals for GSM900 reception (925-960MHz). Thus, in this arrangement, the communication signals conveyed via antenna 11 and the communication signals conveyed via antenna 12 do not have overlapping frequencies.

In the arrangement as shown in Figure 4 and described in paragraph [0040], antenna 11 is used to convey signals for GSM1900 transmission (1850-1910MHz), GSM1800 transmission (1710-1785MHz) and GSM1800 reception (1805-1880MHz), while antenna 12 is used to convey signals for GSM1900 reception (1930-1990MHz) and WCDMA transmission (1920-1980MHz). Antenna 13 is used for WCDMA reception (2110-2170). Thus, in this arrangement the communication signals conveyed via antennas 11, 12 and 13 do not have overlapping frequencies.

In contrast, in claims 1, 25, 32 and 38, the communication signals in the first signal path have a first frequency band and the communication signals in the second signal path have a second frequency band, wherein the second frequency band is at least partially overlapping with the first frequency band.

For the above reasons, claims 1, 25, 32 and 38 are clearly distinguishable over the cited *Klemetti* reference.

As claimed in various dependent claims depending from claims 1, 25 and 32, the present invention provides examples where the communication signals conveyed via antenna 10 and the communication signals conveyed via antenna 20 do have overlapping frequencies. For example, in the embodiment as shown in Figures 2a and 2b, communication signals for GSM1900

transmission (1850-1910MHz) are conveyed in signal path 260 via antenna 10, while communication signals for GSM 1800 reception (1805-1880MHz) are conveyed in signal path 220 via antenna 20. The overlapped portion between these two frequency bands is 1850 – 1880MHz. In the same embodiment, communication signals for GSM1900 reception (1930-1990MHz) are conveyed in signal path 240 via antenna 10, while communication signals for WCDMA transmission (1920-1980MHz) are conveyed in signal path 340 via antenna 20. The overlapped portion between these two frequency bands is 1930-1980MHz.

Frequency bands with the same overlapping arrangement are also shown in the embodiment as depicted in Figures 3a and 3b.

In Figures 4a to 4d, the communication signals for GSM1900 transmission and WCDMA transmission are conveyed via antenna 10, and the communication signals with overlapped portions conveyed via antenna 20 are GSM1900 reception and GSM1900 reception, respectively. In Figures 4e to 4f, the communication signals for GSM1800 reception and WCDMA transmission are conveyed via antenna 10, and the communication signals with overlapped portions conveyed via antenna 20 are GSM1900 transmission and GSM1900 reception, respectively.

In these examples, the communication signals conveyed via antenna 11 have frequency bands which are partially overlapping with frequency bands in the communication signals conveyed via antenna 20.

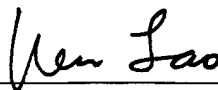
In the antenna arrangements as depicted in Figures 3 and 4 in *Klemetti*, communication signals conveyed through one antenna and the communication signal do not have frequency bands which are at least partially overlapping with frequency bands in the communication signals conveyed through another antenna.

For the above reasons, claims 2-10, 12, 13, 15-24, 26-31, 33-37 and 39 are also distinguishable over the cited *Klemetti* reference.

CONCLUSION

Claims 1-39 are allowable. Early allowance of all pending claims is earnestly solicited.

Respectfully submitted,



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